

In the Claims

Please cancel all prior claims 1-73 and insert new claims 74-86 as follows:

Claims 1 - 73 (cancelled)

74. (new) In a hand held non-contact temperature measurement instrument comprising on a common support the combination of an infrared radiation detector having a field of view coincident with a target surface temperature measurement area; and a laser system for aiming said detector at said target surface area;

the improvement in which said system includes at least three independent spaced apart lasers, each of which directs at least one visible laser beam onto said surface to indicate to the user a pattern of spaced apart light spots which identify the target surface measurement area and location measured by said detector.

75. (new) An instrument according to claim 74 in which at least one laser is movable and directable.

76. (new) An instrument according to claim 74 in which at least one laser is pulsed on and off.

77. (new) An instrument according to claim 76 in which said at least one laser is pulsed on and off synchronously.

78. (new) An instrument according to claim 74 in which one laser directs a beam to the center of the field of view and other lasers direct beams to the edges of the field of view.

79. (new) An instrument according to claim 74 in which at least two of said three or more lasers direct separate spaced apart beams to the edges of the field of view of said detector.

80. (new) An instrument according to claim 74 in which each laser separately identifies a respective portion of the field of view.

81. (new) In a hand held temperature measurement instrument having mounted on a common support a radiometer detector having a longitudinal axis and a field of view; and a radiation detector laser sighting system mounted adjacent said detector:

the improvement in said sighting system wherein two independent lasers are mounted respectively on opposite sides of the radiometer axis, and a separate beam from each laser indicates visually on a target measurement surface opposite parts of the field of view of said detector.

82. (new) In an instrument according to claim 81, means for pulsing at least one of said lasers.

83. (new) In an instrument according to claim 74, means for changing the brightness of at least one of said laser beams by switching the laser electric supply.

84. (new) In an instrument according to claim 81, a diffraction lens associated with at least one laser which produces sub-beams to identify separately a portion of the edge of the field of view.

85. (new) An instrument according to claim 74 in which at least one laser is associated with a diffraction lens which produces sub-beams to identify separately a portion of the edge of the field of view of said detector.